

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/776,773
Source: ETHWO
Date Processed by STIC: 6-6-05

ENTERED

**CRF Errors Edited by the STIC Systems
Branch**

Serial Number: 10/776,773

CRF Edit Date: 6/6/05
Edited by: KE

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

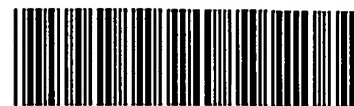
___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

☒ Deleted: ☒ invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

___ Moved responses to same line as heading/numeric identifier, specifically: /

___ Other:



IFWO

RAW SEQUENCE LISTING

DATE: 06/06/2005

PATENT APPLICATION: US/10/776,773

TIME: 16:26:46

Input Set : N:\KEISHA\10776773.txt

Output Set: N:\CRF4\06032005\J776773.raw

4 <110> APPLICANT: Jakobovits, Aya
 5 Morrison, Robert Kendall
 6 Raitano, Arthur B.
 7 Challita-Eid, Pia M.
 8 Perez-Villar, Juan J.
 9 Morrison, Karen Jane Meyrick
 10 Faris, Mary
 11 Ge, Wangmao
 12 Gudas, Jean
 13 Kanner, Steven B.
 15 <120> TITLE OF INVENTION: Nucleic Acids and Corresponding Proteins
 16 Named 158P1D7 Useful in the Treatment and Detection of
 17 Bladder and Other Cancers
 20 <130> FILE REFERENCE: 51158-20050.20
 22 <140> CURRENT APPLICATION NUMBER: US 10/776,773
 23 <141> CURRENT FILING DATE: 2004-02-10
 25 <150> PRIOR APPLICATION NUMBER: US 10/280,340
 26 <151> PRIOR FILING DATE: 2002-10-25
 28 <150> PRIOR APPLICATION NUMBER: US 10/277,292
 29 <151> PRIOR FILING DATE: 2002-10-21
 31 <150> PRIOR APPLICATION NUMBER: US 09/935,430
 32 <151> PRIOR FILING DATE: 2001-08-22
 34 <150> PRIOR APPLICATION NUMBER: US 60/446,633
 35 <151> PRIOR FILING DATE: 2003-02-10
 37 <150> PRIOR APPLICATION NUMBER: US 60/227,098
 38 <151> PRIOR FILING DATE: 2000-08-22
 40 <150> PRIOR APPLICATION NUMBER: US 60/282,739
 41 <151> PRIOR FILING DATE: 2001-04-10
 43 <160> NUMBER OF SEQ ID NOS: 113
 45 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 47 <210> SEQ ID NO: 1
 48 <211> LENGTH: 231
 49 <212> TYPE: DNA
 50 <213> ORGANISM: Homo sapiens
 52 <400> SEQUENCE: 1
 53 gatctgataa gctttcaatg ttgcgctcct gacaatgtat tagaagtcct gatggggata 60
 54 ggactttgca gttacaagga atagggcaga aaggtcctgg aagttgagtg gatggctttg 120
 55 taatataagg tatcaaact ggtgctttgg tgggtagttt tagaatggac gtggtcttag 180
 56 ttgacatgcg actatcattt attgaagatg ttgctgccag atgtaatgat c 231
 58 <210> SEQ ID NO: 2
 59 <211> LENGTH: 2555
 60 <212> TYPE: DNA
 61 <213> ORGANISM: Homo sapiens

(pg.6)

RAW SEQUENCE LISTING

DATE: 06/06/2005

PATENT APPLICATION: US/10/776,773

TIME: 16:26:46

Input Set : N:\KEISHA\10776773.txt

Output Set: N:\CRF4\06032005\J776773.raw

63 <220> FEATURE:

64 <221> NAME/KEY: CDS

65 <222> LOCATION: (23)...(2548)

67 <400> SEQUENCE: 2

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69                               Met Lys Leu Trp Ile His Leu Phe Tyr Ser
70                               1           5           10
72 tct ctc ctt gcc tgt ata tct tta cac tcc caa act cca gtg ctc tca 100
73 Ser Leu Leu Ala Cys Ile Ser Leu His Ser Gln Thr Pro Val Leu Ser
74                               15           20           25
76 tcc aga ggc tct tgt gat tct ctt tgc aat tgt gag gaa aaa gat ggc 148
77 Ser Arg Gly Ser Cys Asp Ser Leu Cys Asn Cys Glu Glu Lys Asp Gly
78                               30           35           40
80 aca atg cta ata aat tgt gaa gca aaa ggt atc aag atg gta tct gaa 196
81 Thr Met Leu Ile Asn Cys Glu Ala Lys Gly Ile Lys Met Val Ser Glu
82                               45           50           55
84 ata agt gtg cca cca tca cga cct ttc caa cta agc tta tta aat aac 244
85 Ile Ser Val Pro Pro Ser Arg Pro Phe Gln Leu Ser Leu Leu Asn Asn
86                               60           65           70
88 ggc ttg acg atg ctt cac aca aat gac ttt tct ggg ctt acc aat gct 292
89 Gly Leu Thr Met Leu His Thr Asn Asp Phe Ser Gly Leu Thr Asn Ala
90 75                               80           85           90
92 att tca ata cac ctt gga ttt aac aat att gca gat att gag ata ggt 340
93 Ile Ser Ile His Leu Gly Phe Asn Asn Ile Ala Asp Ile Glu Ile Gly
94                               95           100          105
96 gca ttt aat ggc ctt ggc ctc ctg aaa caa ctt cat atc aat cac aat 388
97 Ala Phe Asn Gly Leu Gly Leu Leu Lys Gln Leu His Ile Asn His Asn
98                               110          115          120
100 tct tta gaa att ctt aaa gag gat act ttc cat gga ctg gaa aac ctg 436
101 Ser Leu Glu Ile Leu Lys Glu Asp Thr Phe His Gly Leu Glu Asn Leu
102                               125          130          135
104 gaa ttc ctg caa gca gat aac aat ttt atc aca gtg att gaa cca agt 484
105 Glu Phe Leu Gln Ala Asp Asn Asn Phe Ile Thr Val Ile Glu Pro Ser
106                               140          145          150
108 gcc ttt agc aag ctc aac aga ctc aaa gtg tta att tta aat gac aat 532
109 Ala Phe Ser Lys Leu Asn Arg Leu Lys Val Leu Ile Leu Asn Asp Asn
110 155                               160          165          170
112 gct att gag agt ctt cct cca aac atc ttc cga ttt gtt cct tta acc 580
113 Ala Ile Glu Ser Leu Pro Pro Asn Ile Phe Arg Phe Val Pro Leu Thr
114                               175          180          185
116 cat cta gat ctt cgt gga aat caa tta caa aca ttg cct tat gtt ggt 628
117 His Leu Asp Leu Arg Gly Asn Gln Leu Gln Thr Leu Pro Tyr Val Gly
118                               190          195          200
120 ttt ctc gaa cac att ggc cga ata ttg gat ctt cag ttg gag gac aac 676
121 Phe Leu Glu His Ile Gly Arg Ile Leu Asp Leu Gln Leu Glu Asp Asn
122                               205          210          215
124 aaa tgg gcc tgc aat tgt gac tta ttg cag tta aaa act tgg ttg gag 724
125 Lys Trp Ala Cys Asn Cys Asp Leu Leu Gln Leu Lys Thr Trp Leu Glu
126                               220          225          230

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Input Set : N:\KEISHA\10776773.txt

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128	aac	atg	cct	cca	cag	tct	ata	att	ggt	gat	gtt	gtc	tgc	aac	agc	cct	772
129	Asn	Met	Pro	Pro	Gln	Ser	Ile	Ile	Gly	Asp	Val	Val	Cys	Asn	Ser	Pro	
130	235					240					245				250		
132	cca	ttt	ttt	aaa	gga	agt	ata	ctc	agt	aga	cta	aag	aag	gaa	tct	att	820
133	Pro	Phe	Phe	Lys	Gly	Ser	Ile	Leu	Ser	Arg	Leu	Lys	Lys	Glu	Ser	Ile	
134					255					260					265		
136	tgc	cct	act	cca	cca	gtg	tat	gaa	gaa	cat	gag	gat	cct	tca	gga	tca	868
137	Cys	Pro	Thr	Pro	Pro	Val	Tyr	Glu	Glu	His	Glu	Asp	Pro	Ser	Gly	Ser	
138					270					275					280		
140	tta	cat	ctg	gca	gca	aca	tct	tca	ata	aat	gat	agt	cgc	atg	tca	act	916
141	Leu	His	Leu	Ala	Ala	Thr	Ser	Ser	Ile	Asn	Asp	Ser	Arg	Met	Ser	Thr	
142					285					290					295		
144	aag	acc	acg	tcc	att	cta	aaa	cta	ccc	acc	aaa	gca	cca	ggt	ttg	ata	964
145	Lys	Thr	Thr	Ser	Ile	Leu	Lys	Leu	Pro	Thr	Lys	Ala	Pro	Gly	Leu	Ile	
146		300					305					310					
148	cct	tat	att	aca	aag	cca	tcc	act	caa	ctt	cca	gga	cct	tac	tgc	cct	1012
149	Pro	Tyr	Ile	Thr	Lys	Pro	Ser	Thr	Gln	Leu	Pro	Gly	Pro	Tyr	Cys	Pro	
150	315					320					325				330		
152	att	cct	tgt	aac	tgc	aaa	gtc	cta	tcc	cca	tca	gga	ctt	cta	ata	cat	1060
153	Ile	Pro	Cys	Asn	Cys	Lys	Val	Leu	Ser	Pro	Ser	Gly	Leu	Leu	Ile	His	
154					335					340					345		
156	tgt	cag	gag	cgc	aac	att	gaa	agc	tta	tca	gat	ctg	aga	cct	cct	ccg	1108
157	Cys	Gln	Glu	Arg	Asn	Ile	Glu	Ser	Leu	Ser	Asp	Leu	Arg	Pro	Pro	Pro	
158					350					355					360		
160	caa	aat	cct	aga	aag	ctc	att	cta	gcg	gga	aat	att	att	cac	agt	tta	1156
161	Gln	Asn	Pro	Arg	Lys	Leu	Ile	Leu	Ala	Gly	Asn	Ile	Ile	His	Ser	Leu	
162					365					370					375		
164	atg	aag	tct	gat	cta	gtg	gaa	tat	ttc	act	ttg	gaa	atg	ctt	cac	ttg	1204
165	Met	Lys	Ser	Asp	Leu	Val	Glu	Tyr	Phe	Thr	Leu	Glu	Met	Leu	His	Leu	
166		380					385					390					
168	gga	aac	aat	cgt	att	gaa	gtt	ctt	gaa	gaa	gga	tcg	ttt	atg	aac	cta	1252
169	Gly	Asn	Asn	Arg	Ile	Glu	Val	Leu	Glu	Glu	Gly	Ser	Phe	Met	Asn	Leu	
170	395					400					405				410		
172	acg	aga	tta	caa	aaa	ctc	tat	cta	aat	ggt	aac	cac	ctg	acc	aaa	tta	1300
173	Thr	Arg	Leu	Gln	Lys	Leu	Tyr	Leu	Asn	Gly	Asn	His	Leu	Thr	Lys	Leu	
174					415					420					425		
176	agt	aaa	ggc	atg	ttc	ctt	ggt	ctc	cat	aat	ctt	gaa	tac	tta	tat	ctt	1348
177	Ser	Lys	Gly	Met	Phe	Leu	Gly	Leu	His	Asn	Leu	Glu	Tyr	Leu	Tyr	Leu	
178					430					435					440		
180	gaa	tac	aat	gcc	att	aag	gaa	ata	ctg	cca	gga	acc	ttt	aat	cca	atg	1396
181	Glu	Tyr	Asn	Ala	Ile	Lys	Glu	Ile	Leu	Pro	Gly	Thr	Phe	Asn	Pro	Met	
182					445					450					455		
184	cct	aaa	ctt	aaa	gtc	ctg	tat	tta	aat	aac	aac	ctc	ctc	caa	gtt	tta	1444
185	Pro	Lys	Leu	Lys	Val	Leu	Tyr	Leu	Asn	Asn	Asn	Leu	Leu	Gln	Val	Leu	
186		460					465					470					
188	cca	cca	cat	att	ttt	tca	ggg	gtt	cct	cta	act	aag	gta	aat	ctt	aaa	1492
189	Pro	Pro	His	Ile	Phe	Ser	Gly	Val	Pro	Leu	Thr	Lys	Val	Asn	Leu	Lys	
190	475					480					485				490		
192	aca	aac	cag	ttt	acc	cat	cta	cct	gta	agt	aat	att	ttg	gat	gat	ctt	1540

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193 Thr Asn Gln Phe Thr His Leu Pro Val Ser Asn Ile Leu Asp Asp Leu
194          495          500          505
196 gat tta cta acc cag att gac ctt gag gat aac ccc tgg gac tgc tcc 1588
197 Asp Leu Leu Thr Gln Ile Asp Leu Glu Asp Asn Pro Trp Asp Cys Ser
198          510          515          520
200 tgt gac ctg gtt gga ctg cag caa tgg ata caa aag tta agc aag aac 1636
201 Cys Asp Leu Val Gly Leu Gln Gln Trp Ile Gln Lys Leu Ser Lys Asn
202          525          530          535
204 aca gtg aca gat gac atc ctc tgc act tcc ccc ggg cat ctc gac aaa 1684
205 Thr Val Thr Asp Asp Ile Leu Cys Thr Ser Pro Gly His Leu Asp Lys
206          540          545          550
208 aag gaa ttg aaa gcc cta aat agt gaa att ctc tgt cca ggt tta gta 1732
209 Lys Glu Leu Lys Ala Leu Asn Ser Glu Ile Leu Cys Pro Gly Leu Val
210 555          560          565          570
212 aat aac cca tcc atg cca aca cag act agt tac ctt atg gtc acc act 1780
213 Asn Asn Pro Ser Met Pro Thr Gln Thr Ser Tyr Leu Met Val Thr Thr
214          575          580          585
216 cct gca aca aca aat acg gct gat act att tta cga tct ctt acg 1828
217 Pro Ala Thr Thr Asn Thr Ala Asp Thr Ile Leu Arg Ser Leu Thr
218          590          595          600
220 gac gct gtg cca ctg tct gtt cta ata ttg gga ctt ctg att atg ttc 1876
221 Asp Ala Val Pro Leu Ser Val Leu Ile Leu Gly Leu Leu Ile Met Phe
222          605          610          615
224 atc act att gtt ttc tgt gct gca ggg ata gtg gtt ctt gtt ctt cac 1924
225 Ile Thr Ile Val Phe Cys Ala Ala Gly Ile Val Val Leu Val Leu His
226          620          625          630
228 cgc agg aga aga tac aaa aag aaa caa gta gat gag caa atg aga gac 1972
229 Arg Arg Arg Arg Tyr Lys Lys Lys Gln Val Asp Glu Gln Met Arg Asp
230 635          640          645          650
232 aac agt cct gtg cat ctt cag tac agc atg tat ggc cat aaa acc act 2020
233 Asn Ser Pro Val His Leu Gln Tyr Ser Met Tyr Gly His Lys Thr Thr
234          655          660          665
236 cat cac act act gaa aga ccc tct gcc tca ctc tat gaa cag cac atg 2068
237 His His Thr Thr Glu Arg Pro Ser Ala Ser Leu Tyr Glu Gln His Met
238          670          675          680
240 gtg agc ccc atg gtt cat gtc tat aga agt cca tcc ttt ggt cca aag 2116
241 Val Ser Pro Met Val His Val Tyr Arg Ser Pro Ser Phe Gly Pro Lys
242          685          690          695
244 cat ctg gaa gag gaa gaa gag agg aat gag aaa gaa gga agt gat gca 2164
245 His Leu Glu Glu Glu Glu Glu Arg Asn Glu Lys Glu Gly Ser Asp Ala
246          700          705          710
248 aaa cat ctc caa aga agt ctt ttg gaa cag gaa aat cat tca cca ctc 2212
249 Lys His Leu Gln Arg Ser Leu Leu Glu Gln Glu Asn His Ser Pro Leu
250 715          720          725          730
252 aca ggg tca aat atg aaa tac aaa acc acg aac caa tca aca gaa ttt 2260
253 Thr Gly Ser Asn Met Lys Tyr Lys Thr Thr Asn Gln Ser Thr Glu Phe
254          735          740          745
256 tta tcc ttc caa gat gcc agc tca ttg tac aga aac att tta gaa aaa 2308
257 Leu Ser Phe Gln Asp Ala Ser Ser Leu Tyr Arg Asn Ile Leu Glu Lys

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RAW SEQUENCE LISTING

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Input Set : N:\KEISHA\10776773.txt

Output Set: N:\CRF4\06032005\J776773.raw

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258          750          755          760
260 gaa agg gaa ctt cag caa ctg gga atc aca gaa tac cta agg aaa aac 2356
261 Glu Arg Glu Leu Gln Gln Leu Gly Ile Thr Glu Tyr Leu Arg Lys Asn
262          765          770          775
264 att gct cag ctc cag cct gat atg gag gca cat tat cct gga gcc cac 2404
265 Ile Ala Gln Leu Gln Pro Asp Met Glu Ala His Tyr Pro Gly Ala His
266          780          785          790
268 gaa gag ctg aag tta atg gaa aca tta atg tac tca cgt cca agg aag 2452
269 Glu Glu Leu Lys Leu Met Glu Thr Leu Met Tyr Ser Arg Pro Arg Lys
270 795          800          805          810
272 gta tta gtg gaa cag aca aaa aat gag tat ttt gaa ctt aaa gct aat 2500
273 Val Leu Val Glu Gln Thr Lys Asn Glu Tyr Phe Glu Leu Lys Ala Asn
274          815          820          825
276 tta cat gct gaa cct gac tat tta gaa gtc ctg gag cag caa aca tag 2548
277 Leu His Ala Glu Pro Asp Tyr Leu Glu Val Leu Glu Gln Gln Thr *
278          830          835          840
280 atggaga 2555
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283 <211> LENGTH: 841
284 <212> TYPE: PRT
285 <213> ORGANISM: Homo sapiens
287 <400> SEQUENCE: 3
288 Met Lys Leu Trp Ile His Leu Phe Tyr Ser Ser Leu Leu Ala Cys Ile
289 1          5          10          15
290 Ser Leu His Ser Gln Thr Pro Val Leu Ser Ser Arg Gly Ser Cys Asp
291          20          25          30
292 Ser Leu Cys Asn Cys Glu Glu Lys Asp Gly Thr Met Leu Ile Asn Cys
293          35          40          45
294 Glu Ala Lys Gly Ile Lys Met Val Ser Glu Ile Ser Val Pro Pro Ser
295          50          55          60
296 Arg Pro Phe Gln Leu Ser Leu Leu Asn Asn Gly Leu Thr Met Leu His
297 65          70          75          80
298 Thr Asn Asp Phe Ser Gly Leu Thr Asn Ala Ile Ser Ile His Leu Gly
299          85          90          95
300 Phe Asn Asn Ile Ala Asp Ile Glu Ile Gly Ala Phe Asn Gly Leu Gly
301          100          105          110
302 Leu Leu Lys Gln Leu His Ile Asn His Asn Ser Leu Glu Ile Leu Lys
303          115          120          125
304 Glu Asp Thr Phe His Gly Leu Glu Asn Leu Glu Phe Leu Gln Ala Asp
305          130          135          140
306 Asn Asn Phe Ile Thr Val Ile Glu Pro Ser Ala Phe Ser Lys Leu Asn
307 145          150          155          160
308 Arg Leu Lys Val Leu Ile Leu Asn Asp Asn Ala Ile Glu Ser Leu Pro
309          165          170          175
310 Pro Asn Ile Phe Arg Phe Val Pro Leu Thr His Leu Asp Leu Arg Gly
311          180          185          190
312 Asn Gln Leu Gln Thr Leu Pro Tyr Val Gly Phe Leu Glu His Ile Gly
313          195          200          205
314 Arg Ile Leu Asp Leu Gln Leu Glu Asp Asn Lys Trp Ala Cys Asn Cys

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/776,773

DATE: 06/06/2005
TIME: 16:26:47

Input Set : N:\KEISHA\10776773.txt
Output Set: N:\CRF4\06032005\J776773.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:27; Xaa Pos. 1,3,13 ✓

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/776,773

DATE: 06/06/2005

TIME: 16:26:47

Input Set : N:\KEISHA\10776773.txt

Output Set: N:\CRF4\06032005\J776773.raw

L:2728 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2733 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:27
L:2737 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:27
L:2738 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0



IFWO

RAW SEQUENCE LISTING

DATE: 05/27/2005

PATENT APPLICATION: US/10/776,773

TIME: 08:25:21

Input Set : E:\51158-20050.20 - seq list reformatted (from client).txt

Output Set: N:\CRF4\05272005\J776773.raw

4 <110> APPLICANT: Jakobovits, Aya
 5 Morrison, Robert Kendall
 6 Raitano, Arthur B.
 7 Challita-Eid, Pia M.
 8 Perez-Villar, Juan J.
 9 Morrison, Karen Jane Meyrick
 10 Faris, Mary
 11 Ge, Wangmao
 12 Gudas, Jean
 13 Kanner, Steven B.
 15 <120> TITLE OF INVENTION: Nucleic Acids and Corresponding Proteins
 16 Named 158P1D7 Useful in the Treatment and Detection of
 17 Bladder and Other Cancers
 20 <130> FILE REFERENCE: 51158-20050.20
 22 <140> CURRENT APPLICATION NUMBER: US 10/776,773
 23 <141> CURRENT FILING DATE: 2004-02-10
 25 <150> PRIOR APPLICATION NUMBER: US 10/280,340
 26 <151> PRIOR FILING DATE: 2002-10-25
 28 <150> PRIOR APPLICATION NUMBER: US 10/277,292
 29 <151> PRIOR FILING DATE: 2002-10-21
 31 <150> PRIOR APPLICATION NUMBER: US 09/935,430
 32 <151> PRIOR FILING DATE: 2001-08-22
 34 <150> PRIOR APPLICATION NUMBER: US 60/446,633
 35 <151> PRIOR FILING DATE: 2003-02-10
 37 <150> PRIOR APPLICATION NUMBER: US 60/227,098
 38 <151> PRIOR FILING DATE: 2000-08-22
 40 <150> PRIOR APPLICATION NUMBER: US 60/282,739
 41 <151> PRIOR FILING DATE: 2001-04-10
 43 <160> NUMBER OF SEQ ID NOS: 113
 45 <170> SOFTWARE: FastSEQ for Windows Version 4.0

Does Not Comply
Corrected Diskette Needed

(pg. 2)

ERRORED SEQUENCES

5523 <210> SEQ ID NO: 113
 5524 <211> LENGTH: 110
 5525 <212> TYPE: PRT
 5526 <213> ORGANISM: Homo sapiens
 5528 <400> SEQUENCE: 113
 5529 Asp Ile Gln Leu Thr Gln Ser Pro Ala Ser Leu Ala Val Ser Leu Gly
 5530 1 5 10 15
 5531 Gln Arg Ala Thr Ile Ser Tyr Arg Ala Ser Lys Ser Val Ser Thr Ser
 5532 20 25 30

RAW SEQUENCE LISTING

DATE: 05/27/2005

PATENT APPLICATION: US/10/776,773

TIME: 08:25:22

Input Set : E:\51158-20050.20 - seq list reformatted (from client).txt

Output Set: N:\CRF4\05272005\J776773.raw

5533 Gly Tyr Ser Tyr Met His Trp Asn Gln Gln Lys Pro Gly Gln Pro Pro
5534 35 40 45
5535 Arg Leu Leu Ile Tyr Leu Val Ser Asn Leu Glu Ser Gly Val Pro Ala
5536 50 55 60
5537 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Asn Ile His
5538 65 70 75 80
5539 Pro Val Glu Glu Glu Asp Ala Ala Thr Tyr Tyr Cys Gln His Ile Arg
5540 85 90 95
5541 Glu Leu Thr Arg Ser Glu Gly Gly Pro Ser Trp Arg Ser Asn
5542 100 105 110

E--> 5547 1

Deleted

VERIFICATION SUMMARY

DATE: 05/27/2005

PATENT APPLICATION: US/10/776,773

TIME: 08:25:23

Input Set : E:\51158-20050.20 - seq list reformatted (from client).txt

Output Set: N:\CRF4\05272005\J776773.raw

L:2728 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2733 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:27
L:2737 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:27
L:2738 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:5547 M:332 ~~E~~ (32) Invalid/Missing Amino Acid Numbering, SEQ ID:113 ✓